Cluster – Science, Technology, Engineering and Math Pathway – Engineering and Technology Program of Study – Pre-Engineering

Sample Plan of Study

| | oth o | 10th C | | 4 oth G |
|--|-----------------------|--------------------------------------|---|------------------------|
| | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
| S | English I or Pre-AP | English II or Pre-AP | English III or AP | English IV or AP |
| mart | Algebra I or Geometry | Geometry or Algebra II | Algebra II or | AP Calculus |
| ar | | | Trigonometry | College Algebra |
| | | | Pre- AP Calculus | AP Statistics |
| Core | Physical Science | Biology | Chemistry | AP Biology |
| ře | | Pre-AP Chemistry | Physics | AP Chemistry |
| 1,5 | | Applied Biology/Chemistry | Principles of | AP Physics |
| | Civia | \\/ould liotom/ | Technology | Earth & Space Science |
| | Civics | World History | US History | Economics |
| Foundation Courses | | Program of Study Support | Pre Engineering Core Courses Intro to Engineering Design Principals of Engineering Digital Electronics | |
| Career Orientation | | Courses | | |
| Computer Technology Keyboarding | | EAST/Workforce Technology Internship | | |
| Reyboarding | | Workplace Readiness | | |
| Graduation Requirements | | Trompiass readiness | | |
| English 4 units | | Support Courses | Pre Engineering Electives | |
| Math 4 units | | Foreign Language | Aerospace Engineering Biotechnical Engineering Civil Engineering & Architecture Computer Integrated Manufacturing Engineering Design and Development Pre Engineering Industry Certifications | |
| Science 3 units | | Word Processing or | | |
| Social Studies 3 units | | Computer Business | | |
| Fine Arts ½ unit | | Applications (CBA) | | |
| Health and Safety ½ unit Oral Communication ½ unit | | Extended Learning | | |
| Physical Education ½ unit | | Opportunities | | |
| Career Focus 6 units | | Job Shadowing | | |
| | | l cos chadownig | Related Programs of | Study |
| Arkansas Challenge | | | Drafting and Design | • |
| Foreign Language 2 units | | | Electronics | |
| | | | | |
| Postsecondary Opportunities | | | | |
| Maj | or | Postsecondary School | Certific | ate/Degree Program |
| Biomedical Electronics | | NAC Harrison | Associa | te's Degree |
| Computer Assisted Drafting/Des | | NWACC Bentonville | Associa | te's Degree |
| Engineering | | ASU Jonesboro | Bachel | or's |
| Master of Engineering | | ATU Russellville | Master | 's |
| Engineering | | UA Fayetteville | Doctor | al |
| Civil Engineering | | UA Fayetteville, ASU Jonesbo | ro Bachel | or's & Master's |
| Transportation Engineering | | | | |
| Engineering Physics | | ATU Russellville | Bachel | |
| Chemical Engineering | | UA Fayetteville | Bachelo | or's, Master's |
| Engineering Assistant | | NPCC Hot Springs | Certifica | ate |
| Telecommunications | | UA Fayetteville | Master's | 3 |
| Eng | ineering | | | |